

Site ID 9999
Integrated Steel Corporation
Steeltown Works
1500 Main Plant Rd.
Steeltown, USA

U.S. ENVIRONMENTAL PROTECTION AGENCY
ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE
COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA



Return to:

U.S. ENVIRONMENTAL PROTECTION AGENCY
ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE
COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA
c/o Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151-1102

EPA Iron and Steel Survey Help Line:

Eastern Research Group, Inc.
Internet Electronic Mailing Address

(800) 357-7075
steel_helpline@erg.com



Printed on paper that contains at least 20 percent postconsumer fiber.

U.S. ENVIRONMENTAL PROTECTION AGENCY
ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE
COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA

TABLE OF CONTENTS

	Page
INTRODUCTION	i
Completion of the Survey	i
Authority	ii
Provisions Regarding Data Confidentiality	ii
Where to Return the Survey	iii
Certification Statement	iii
ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA	1
COMMENTS FOR THE ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA	5
Analytical Data Submittal Form	
Production Data Submittal Form	
Attachment 1. Process Flow Diagram(s) and Summary Table(s) from the Collection of 1997 Iron and Steel Industry Data	

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) is conducting the Analytical and Production Data Follow-up to the Collection of 1997 Iron and Steel Industry Data Detailed Survey to assess the variability of waste streams and treatment unit performance within this industry, and to assess the monthly and daily production variability that can occur in this industry. Your facility was selected to complete the Analytical and Production Data Follow-up on the basis of the information reported in Part A (Technical Information) of the Detailed Survey. This survey requests (1) the individual analytical data points from the monitoring of wastewater at your facility, as reported in your site's response to Questions 2A-28, 3A-11, or 4B-8.f. of the Detailed Survey, and (2) sixty (60) months of production data and the associated production hours per month for specific iron and steel manufacturing operations at your facility.

COMPLETION OF THE SURVEY

The survey should be completed by the person(s) most knowledgeable about the monitoring and production data collected at the facility. All sites must have the corporate official or designee responsible for directing or supervising the survey response sign the Certification Statement (located on page iii) to verify and validate the data provided.

EPA IRON AND STEEL SURVEY HELP LINE

Information About the Analytical and Production Data Follow-Up

Eastern Research Group, Inc. (800) 357-7075

Internet Electronic Mailing Address steel_helpline@erg.com

Form Approved
OMB Control No. 2040-0193
Approval Expires 08/31/2001

The public reporting and recordkeeping burden for this survey is estimated to average 20 hours. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget (OMB) control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Office of Policy, Planning, and Evaluation, U.S. Environmental Protection Agency, Regulatory Information Division, MC 2137, 401 M Street, S.W., Washington, DC 20460. Include the OMB control number in any correspondence. Do not send the completed survey to this address.

AUTHORITY

This survey is conducted under the authority of Section 308 of the Clean Water Act (Federal Water Pollution Control Act, 33 U.S.C. Section 1318). **All sites that receive this survey must respond to it.** Return all portions of the survey to the EPA **within 45 days** of receiving it. Late filing or failure to comply with these instructions may result in criminal fines, civil penalties, and other sanctions, as provided by law.

If you wish to request an extension for your site or discuss a delivery schedule for a company with multiple sites, you must do so **in writing** within 20 days of receipt of this survey. Send written requests to:

Mr. George Jett
U.S. Environmental Protection Agency (4303)
401 M Street, SW
Washington, DC 20460

Extension requests will be evaluated on a case-by-case basis. Submittal of an extension request to EPA does **not** alter the due date of your survey.

PROVISIONS REGARDING DATA CONFIDENTIALITY

Regulations governing the confidentiality of business information are contained in the Code of Federal Regulations (CFR) at Title 40 Part 2, Subpart B. You may assert a business confidentiality claim covering part or all of the information you submit, **other than effluent data required by your wastewater discharge permit to demonstrate compliance with your limits**, as described in 40 CFR 2.203(b):

"(b) Method and time of asserting business confidentiality claim. A business which is submitting information to EPA may assert a business confidentiality claim covering the information by placing on (or attaching to) the information, at the time it is submitted to EPA, a cover sheet, stamped or typed legend, or other suitable form of notice complying language such as 'trade secret,' 'proprietary,' or 'company confidential.' Allegedly confidential portions of otherwise nonconfidential documents should be clearly identified by the business, and may be submitted separately to facilitate identification and handling by EPA. If the business desires confidential treatment only until a certain date or until the occurrence of a certain event, the notice should so state."

If no business confidentiality claim accompanies the information when it is received by EPA, EPA may make the information available to the public without further notice.

You may claim as confidential all information included in a submittal by checking the Confidential Business Information (CBI) box on the analytical or production data submittal forms which are to be attached to each data submittal. If you do not check the box on the submittal form or identify data as confidential, EPA will consider the data nonconfidential. Note that you may be required to justify any claim of confidentiality at a later time.

Information covered by a claim of confidentiality will be disclosed by EPA only to the extent of, and by means of, the procedures set forth in 40 CFR Part 2, Subpart B. In general, submitted information protected by a business confidentiality claim may be disclosed to other employees, officers, or authorized representatives of the United States concerned with implementing the Clean Water Act.

Information covered by a claim of confidentiality will be made available to EPA contractors under EPA Contract Numbers 68-C6-0044, 68-C6-0022, and 68-C4-0046 to enable the contractors to perform the work required by their contracts with EPA. All EPA contracts provide that contractor employees use the information only for the purpose of performing the work required by their contracts and will not disclose any

CBI to anyone other than EPA without prior written approval from each affected business or from EPA's legal office. Any comments you may wish to make on this issue must be submitted in writing along with your completed survey.

WHERE TO RETURN THE SURVEY

After completing the survey and certifying the information that it contains, use the enclosed mailing label to mail the completed survey to:

U.S. Environmental Protection Agency
Analytical and Production Data Follow-Up to the
Collection of 1997 Iron and Steel Industry Data
c/o Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151-1102

Retain a copy of the completed survey, including attachments. EPA will review the data submitted and may request your cooperation in answering follow-up clarification questions, if necessary, to complete analyses. Also, please maintain a record of sources used to complete the questions.

CERTIFICATION STATEMENT FOR THE ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE COLLECTION OF 1997 IRON AND STEEL DATA

I certify under penalty of law that the data provided in this survey response was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, accurate and complete. In those cases where we did not possess the requested information, we provided best engineering estimates in response to the questions. We have to the best of our ability indicated what we believe to be company confidential business information as defined under 40 CFR Part 2, Subpart B. We understand that we may be required at a later time to justify our claim in detail with respect to each item claimed confidential. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment as explained in Section 308 of the Clean Water Act.

Signature of Certifying Official

Date

Printed Name of Certifying Official

()
Telephone Number

Title of Certifying Official

ANALYTICAL AND PRODUCTION DATA FOLLOW-UP TO THE COLLECTION OF 1997 IRON AND STEEL INDUSTRY DATA

This survey is designed to collect individual analytical and flow rate data points and sixty (60) months of production data and associated production hours per month as a follow-up to industry responses to the "U.S. Environmental Protection Agency Collection of 1997 Iron and Steel Industry Data, Part A: Technical Information."

Provide the analytical and flow rate data for the sampling points that are described as follows:

- Outfall 001: 1/1/97 - 12/31/97; and
- Outfall 002: 1/1/97 - 12/31/97.

Provide sixty (60) months of production data (1993 to 1997) and the corresponding operating hours for each month for the following manufacturing operations:

- No. 1 Blast Furnace;
- No. 1 BOF;
- No. 2 BOF;
- Vacuum Degasser;
- Continuous Caster;
- Hot Strip Mill;
- No. 1 Hydrochloric Acid Pickling Line;
- Tandem Mill; and
- Zinc Electroplating Line.

GENERAL INSTRUCTIONS

For the analytical data follow-up portion of the survey, use information from your response to the Collection of 1997 Iron and Steel Industry Data. Attached for your convenience are the summary tables of interest from your 1997 Iron and Steel Industry Survey, which will help you to complete the requested information. If the sampling and analysis information reported in your Collection of 1997 Iron and Steel Industry Data was incorrect or incomplete, please incorporate this information into your response.

For the analytical data follow-up portion of the survey, report all information for the time period reported in the summary table(s). Attach copies of all available data for each sampling point for wastewater sample summaries which are included in Attachment 1. If possible, include an electronic copy of the data you are attaching. Check that all data attachment pages are legible after photocopying.

For the production data follow-up portion of the survey, report all information for the 5-year time period 1993 to 1997. Include 60 months of production data for the manufacturing operations listed. For each of the 60 months, include (1) the production hours **OR** (2) the production turns and an hours per turn conversion factor. If possible, include an electronic copy of the data you are attaching. Check that all data attachment pages are legible after photocopying.

If you have any questions regarding the completion of this survey, contact the help line at (800) 357-7075 or email your questions to steel_helpline@erg.com.

If you have any comments on a question or you feel an answer needs clarification, use the Comments page at the end of the survey.

Indicate if the response for a project should be treated as confidential by checking the Confidential Business Information (CBI) box on the analytical or production data submittal forms which are to be attached to each project. Any response where "CBI" is not checked or the individual pages are not marked will be considered nonconfidential. Follow the instructions given in the PROVISIONS REGARDING DATA CONFIDENTIALITY section on page ii to indicate which information in your response is confidential, so that such information may be protected under EPA's confidentiality procedures set forth in 40 CFR Part 2, Subpart B.

- (1) For each sampling point listed on page 1, copies of the process flow diagram(s) and Questions 2A-28, 3A-11, or 4B-8.f. from your site's response to the Collection of 1997 Iron and Steel Industry Data are included in Attachment 1 to allow you to verify the wastewater sampling points and the wastewater sampling and analysis data. If the data for a particular sampling point was incorrect in these responses, please cross out the incorrect data, and enter the correct data on the copied pages.
- a. **Please attach copies of all available data for the wastewater sampling points at your facility for the time period reported in the summary table(s).** You may submit copies of analytical and flow rate data in their current format (e.g., laboratory reports, spreadsheets); however, the following information must be clearly indicated for each sampling point somewhere in the data attachments:
- (1) Sampling points (i.e., SP- codes from your process flow diagram as listed above);
 - (2) Types of analyses;
 - (3) Sample collection dates;
 - (4) Samples collection procedures (i.e., grab or composite) - if composite samples were collected, please specify the period of collection (in hours or days) for each of the composite samples;
 - (5) Analytical method numbers if not provided in the table(s) in Attachment 1 (i.e., EPA standard method numbers or other method numbers) - if necessary, please contact your analytical laboratory for information on analytical method numbers;
 - (6) Analytical results (or detection limits if constituents are not detected);
 - (7) Units of measure for the analytical results (e.g., mg/L, lb/day);
 - (8) Quality assurance/quality control (QA/QC) data, if available (analytical QA/QC data include blanks, matrix spikes, matrix spike duplicates, percent recoveries, and field duplicates); and
 - (9) Flow rate during sample collection.
- b. **Please complete an Analytical Data Submittal Form for each sampling point listed on page 1.**
- For each Analytical Data Submittal Form, indicate whether the attached data are effluent data required by your wastewater discharge permit to demonstrate compliance with your limits by checking the first box. If the attached data are not required by your wastewater discharge permit, if appropriate, you may check the CBI box at the bottom of the form to claim the information in the data attachments as Confidential Business Information. Note that per regulations governing the confidentiality of business information in 40 CFR Part 2, Subpart B, **effluent data required by your wastewater discharge permit to demonstrate compliance with your limits** cannot be claimed as Confidential Business Information.
- Number the data attachment pages for each submittal, and staple or clip them to the Analytical Data Submittal Form. The Analytical Data Submittal Forms will serve as the cover pages for your data attachments.

- (2) For each manufacturing operation listed on page 1:
- a. **Please attach copies of production data and production hours for the manufacturing operations listed on page 1 for the time period 1993 to 1997.** You may submit copies of production data in their current format (e.g., spreadsheets); however, the following information must be clearly indicated for each manufacturing operation somewhere in the data attachments:
- (1) Manufacturing operations;
 - (2) Monthly production data and the associated dates; and
 - (3) Monthly production hours associated with the production data. If your facility keeps records of production turns rather than production hours, provide the monthly production turns and an hours per turn conversion factor.
- b. **Please complete a Production Data Submittal Form for each manufacturing operation listed on page 1.**

For each Production Data Submittal Form, if appropriate, you may check the CBI box on the form to claim the information in the data attachment as Confidential Business Information.

Number the data attachment pages for each submittal, and staple or clip them to the Production Data Submittal Form. The Production Data Submittal Forms will serve as the cover pages for your data attachments.

Indicate the confidential status of your comment by checking (✓) the box in the column titled "CBI" (Confidential Business Information). If you need additional space, photocopy this page before writing on it and number each copy in the space provided in the upper right corner.

[illegible]

ANALYTICAL DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following analytical data set:

Outfall 001: 1/1/97 - 12/31/97.

IF THE ATTACHED DATA ARE EFFLUENT DATA REQUIRED BY YOUR WASTEWATER
DISCHARGE PERMIT TO DEMONSTRATE COMPLIANCE WITH YOUR LIMITS, CHECK THIS
BOX ☐

IF THE ATTACHED DATA^a ARE CBI, CHECK THIS BOX ☐

^aPer regulations governing the confidentiality of business information in 40 CFR Part 2, Subpart B, **effluent data required by your wastewater discharge permit to demonstrate compliance with your limits** cannot be claimed as Confidential Business Information.

ANALYTICAL DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following analytical data set:

Outfall 002: 1/1/97 - 12/31/97.

IF THE ATTACHED DATA ARE EFFLUENT DATA REQUIRED BY YOUR WASTEWATER
DISCHARGE PERMIT TO DEMONSTRATE COMPLIANCE WITH YOUR LIMITS, CHECK THIS
BOX ☐

IF THE ATTACHED DATA^a ARE CBI, CHECK THIS BOX ☐

^aPer regulations governing the confidentiality of business information in 40 CFR Part 2, Subpart B, **effluent data required by your wastewater discharge permit to demonstrate compliance with your limits** cannot be claimed as Confidential Business Information.

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

No. 1 Blast Furnace.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

No. 1 BOF.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

No. 2 BOF.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

Vacuum Degasser.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

Continuous Caster.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

Hot Strip Mill.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

No. 1 Hydrochloric Acid Pickling Line.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

Tandem Mill.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

PRODUCTION DATA SUBMITTAL FORM

This form is intended as a cover sheet for the following production data set:

Zinc Electroplating Line.

IF THE ATTACHED DATA ARE CBI, CHECK THIS BOX

☐

CHECKLIST

Are the monthly production data for 1993 to 1997 attached?

☐

Are the monthly production hours attached?

☐

OR

Are the monthly production turns attached?

☐

If yes, what is the hours per turn conversion factor? _____ hours/turn

Attachment 1

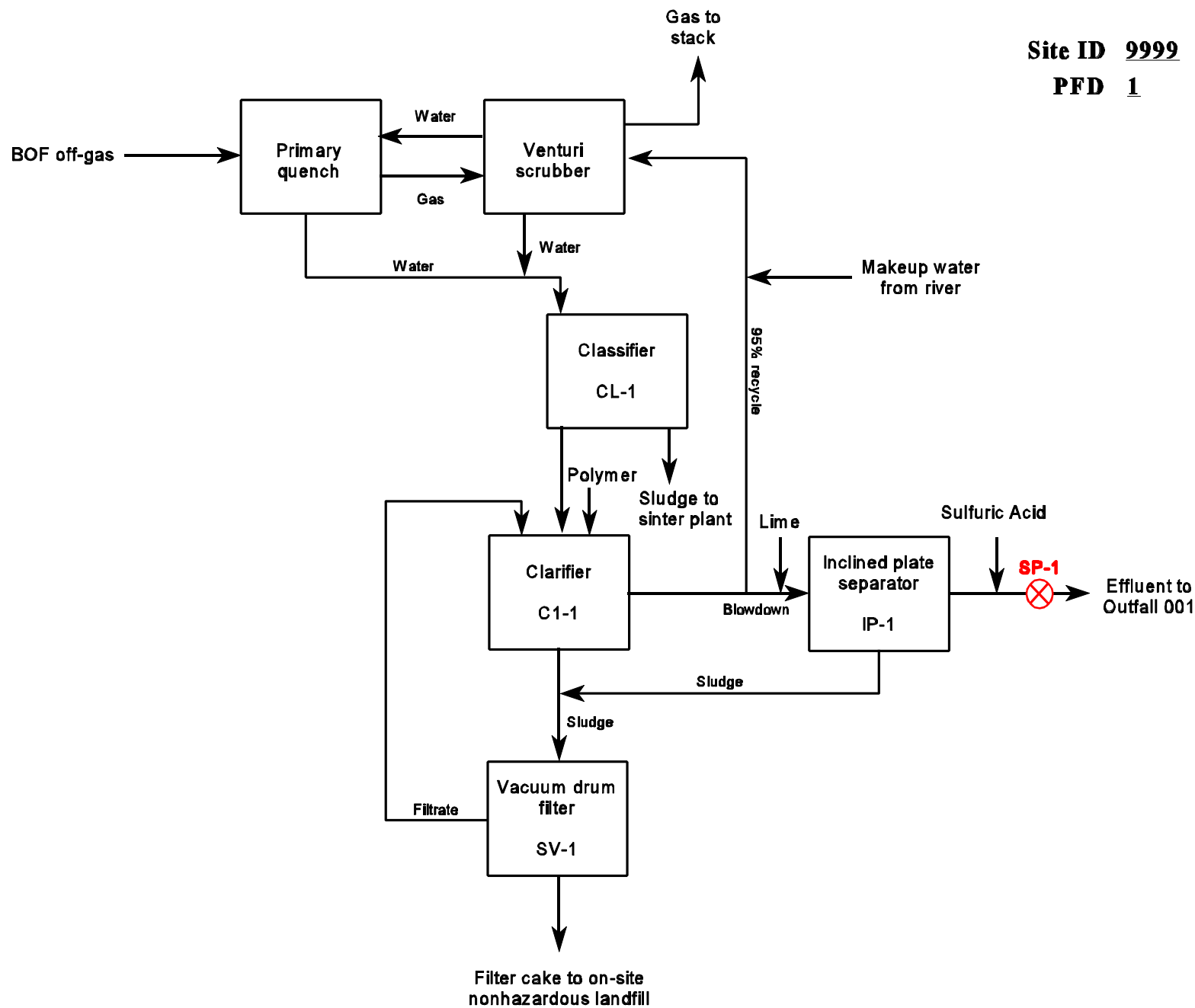
**Process Flow Diagram(s) and Summary Table(s) from the
Collection of 1997 Iron and Steel Industry Data**

☐ **CBI** **4B-8.f.** Provide summary information for **ALL** analytical data collected from this permit monitoring location during **1997**. The summary information **(cont.)** should be based on data collected for the purpose of permit compliance and any other wastewater characterization data collected using EPA-approved methods. For the pollutant parameter code and the ND calculation method code, refer to the lists provided earlier. **If you need additional space for this permit monitoring location, photocopy this page before writing on it.**

[illegible]

Site ID 9999

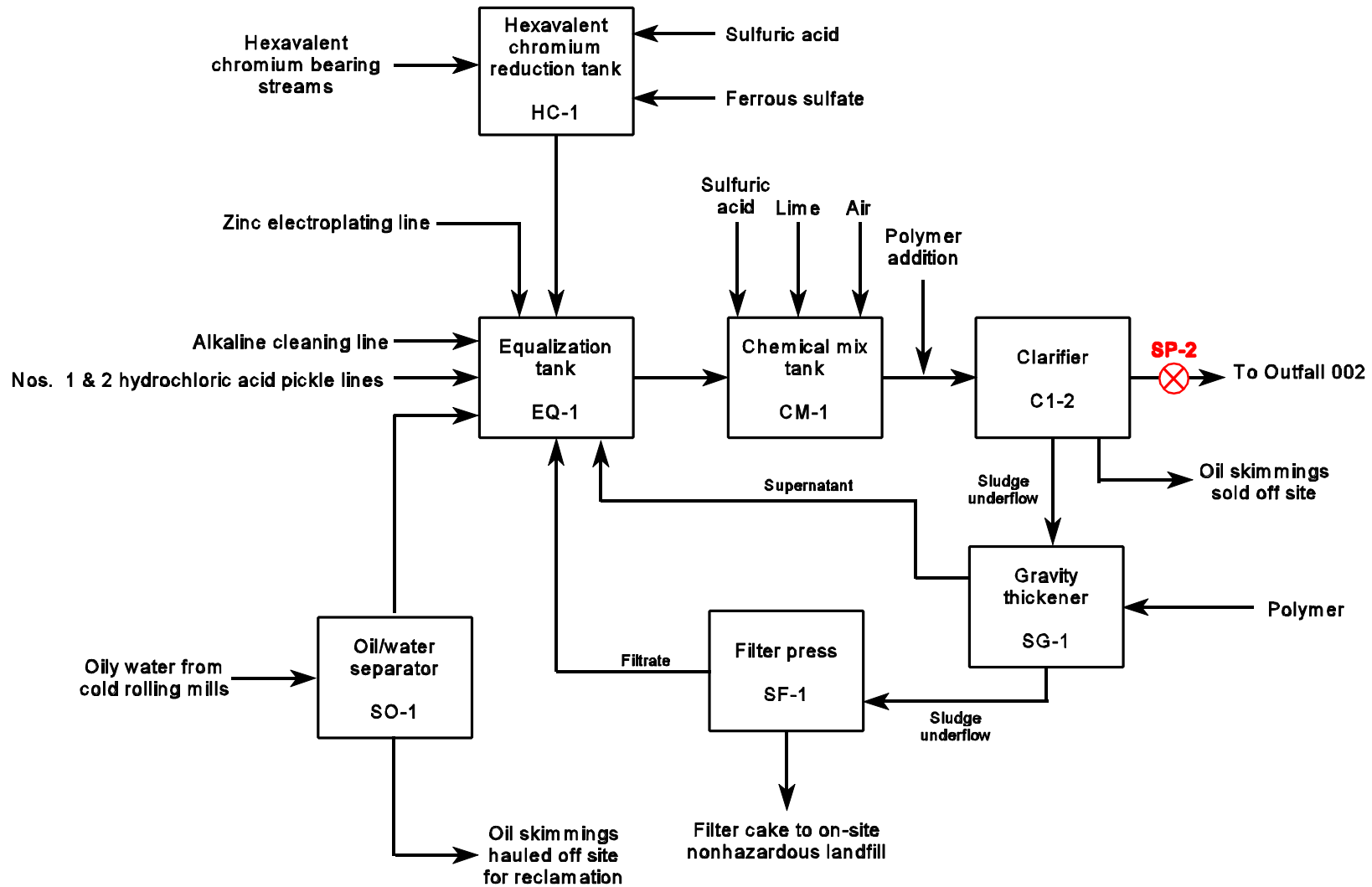
PFD 1



**Basic Oxygen Furnace In-Process Wastewater Treatment System
Example Process Flow Diagram**

☐ **CBI** **4B-8.f.** Provide summary information for **ALL** analytical data collected from this permit monitoring location during **1997**. The summary information **(cont.)** should be based on data collected for the purpose of permit compliance and any other wastewater characterization data collected using EPA-approved methods. For the pollutant parameter code and the ND calculation method code, refer to the lists provided earlier. **If you need additional space for this permit monitoring location, photocopy this page before writing on it.**

[illegible]



**Oil Wastewater Pretreatment, Chromium Pretreatment,
and Metals End-of-Pipe Treatment
Example Process Flow Diagram**